



## PROTECTIVE GRID FOR WORK LIGHT

## BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a lighting device, specially to a work lamp  
5 with a grid adopted on a rear side thereof.

2. Description of the Prior Art

A work lamp or work light, specifically a lighting device having a halogen bulb or tube, is a conventional lighting instrument widely used indoors as well as outdoors, mainly for in a work place or a plant, for large space lighting. The reasons  
10 for using the halogen light bulb or tube are that it can produce a stronger light and is covered by a stiff outer shell.

Fig. 1 shows a conventional halogen work light including a main body A, on front side; a lamp, such as halogen bulb B adopted inside said main body A, and the back (rear) side C of said main body A, provided a wire box D which has electrical  
15 wires inside.

The rear side C of the above-mentioned main body A always produces heat. Under the high temperature, to those people who repairing, maintenance, as well as working nearby, a risk is always present.

Certain working places always use the portable halogen work light as a  
20 lighting device. But because it can be hit by other articles, in order to prevent the arm caused by hit, the improvement normally is to increase the thickness of the shell of the rear portion or whole lighting device.

Up to now, the rear side of all halogen work light sold in marketplace is bare without any shielding, therefore, it is worthy for us to improve it.

### **SUMMARY OF THE INVENTION**

The main object and purpose of the present invention is to provide a protective grid on a rear side of a halogen work light.

5 The protective grid including the connecting plate can be connected to the main body and has a plurality of grid rods.

The protective area of the protective grid allows the wire box to be accessed for installation, repair and maintenance.

The protective grid can be composed by vertical rods, horizontal rods, slope rods, netting rods and the like.

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### **BRIEF DESCRIPTION OF THE DRAWINGS**

Figure 1 is the prospective view of the conventional halogen light.

Figure 2 is the rear prospective view of the main body of the present invention.

15 Figure 3 is the prospective view of the main body and protective grid of the present invention.

### **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS**

Referring to Fig. 2 and 3, the construction of the present invention includes a protective grid on a rear side of a main body 10, the protective grid has a grid body 20 and connecting plates 30 connected respectively.

The main body 10 is a conventional structure normally having a lamp body 11 and a wire box 12. The lamp body 11 further including a rear portion 13.

In the embodiment of the present invention, proper place around the rear portion 13, provides the connecting member for adopting said protective gird, such 25 as screwing holes 14 and protrusion plate 15.

Grid body 20 constructed to cover the rear portion 13 of main body 10. The configuration can be by parallel grids rods, netting or crossed by horizontal and

vertical rods. The rods 21 can be formed by bending and both opposing ends are fixed to the connecting plate 30.

The connecting plates 30 are a structure which can be connected to the rear portion 13 of the lamp body 11. As shown in drawings, the connecting plates 30 5 include holes 31 which correspond to screwing holes 14. The connecting plate can be connected using screws 32 to connect the grid body 20 with the lamp body 11.

Referring to the drawings, between the protective grid and rear portion 13, there are a plurality of gaps formed by the rods to prevent unnecessary contact with the rear portion 13. Even with the protective grid covering the rear portion 13, there 10 is still an open space under the protective grid allowing the wire box 12 to be accessible.

Due to versatile shapes of the lamp body 11, the protective grid can be designed to comply with the rear portion of the lamp body.

The main body 10 of the work light can be adopted and fixed to the lamp 15 frame as well as adopted as a portable unit.

The embodiment disclosed in the specification is only one of the examples. Any minor change or modification derived from the inventive concept of the present invention will still fall within the scope of the present invention.